

BOARD OF COUNTY COMMISSIONERS

AGENDA ITEM SUMMARY

Meeting Date: February 19, 2003

Division: Public Works

Bulk Item: Yes X No

Department: Engineering

AGENDA ITEM WORDING: Approval to use Transportation Impact Fees to reimburse the Gas Tax Fund for eligible projects completed between October 2000 through September 2002.

ITEM BACKGROUND: Construction of new bike paths and widening of collector roads were previously funded by gas tax revenue, however, they were eligible for impact fee funding. Work occurred during the period October 2000 through September 2002. The reimbursement amount is \$1,168,551.31.

PREVIOUS RELEVANT BOCC ACTION: Every few years a transportation impact fee reimbursement request is presented and approved by the Board.

CONTRACT/AGREEMENT CHANGES: N/A

STAFF RECOMMENDATIONS: Approval as stated above.

TOTAL COST: \$1,168,551.31 (Impact Fees) **BUDGETED:** Yes X No

COST TO COUNTY: \$1,168,551.31 (Impact Fees) **SOURCE OF FUNDS:** Roadway Impact Fees

REVENUE PRODUCING: Yes No X **AMOUNT PER MONTH** **Year**

APPROVED BY: County Atty X OMB/Purchasing X Risk Management N/A

ITEM PREPARED BY: David S. Koppel
David S. Koppel, County Engineer

DIVISION DIRECTOR APPROVAL: Dent Pierce
Dent Pierce

DOCUMENTATION: Included X To Follow Not Required

DISPOSITION:

AGENDA ITEM # 228

TRANSPORTATION IMPACT FEE PROPOSED REIMBURSEMENT

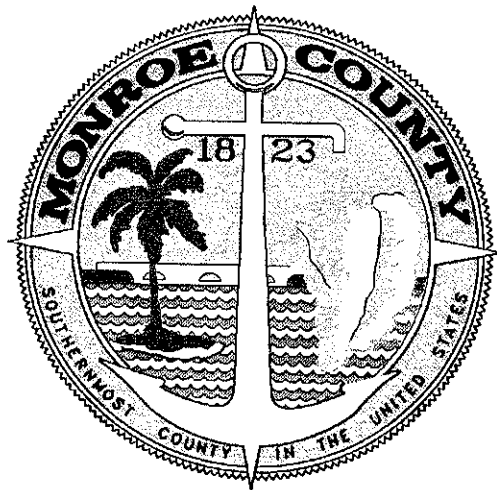
FOR PROJECTS COMPLETED

FROM

OCTOBER 2000

THROUGH

SEPTEMBER 2002



PREPARED BY:

**Monroe County Public Works Division
Engineering Department**

**PROPOSED TRANSPORTATION IMPACT FEE REIMBURSEMENT
FOR PROJECTS COMPLETED
OCTOBER 2000 THROUGH SEPTEMBER 2002**

Prepared by: Monroe County Engineering Department

PURPOSE

The purpose of this report is to identify completed road and bike path projects from 2000 through 2002 that were eligible for transportation impact fee funding, but used other funding sources to pay for the work.

FINDING

We have identified 11 road and bike path construction projects completed within the last two years that meet the criteria for using transportation impact fees. Actual contract unit costs and quantities were used to determine the exact amount of impact fees to be applied to each project. The scope of construction performed dictated whether the project could be funded with one hundred percent impact fees or only a portion thereof. The conclusion of our analysis revealed that **\$1,168,551.31** in expenditures should be reimbursed with transportation impact fees.

Appendix A is a summary of the projects analyzed and shows the proposed impact fee reimbursement for each project. Appendices B through G contain supporting documentation used in the report.

T A B L E O F A P P E N D I C E S

APPENDIX A	Summary of Eligible Impact Fee Costs
APPENDIX B	Project Construction Total and Balance Comparison
APPENDIX C	Individual Project Cost
APPENDIX D	Time Charge and Salary Costs
APPENDIX E	Worksheets
APPENDIX F	Maps of Collector Roads
APPENDIX G	Transportation Impact Fee Reimbursement – Legal Opinion

APPENDIX A – SUMMARY OF ELIGIBLE IMPACT FEE COSTS

Appendix A, Summary of Eligible Impact Fee Costs, indicates eligible impact fee for each project. The "Collector Road Total" (from the Individual Project Cost Sheet in Appendix C) is the amount proposed for impact fee funding. Based on a legal opinion from impact fee attorney Martin L. Leitner, impact fees can pay 24.2% of the total cost for upgrading collector roads and 100.0% of bike path projects. (See Appendix G). These percentages are shown in Column 5. Column 6 calculates the eligible impact fee amount by multiplying the percentage by the eligible collector road total cost (Column 4). Any previously expended impact fees are recorded in Column 7 and then subtracted from the eligible amount (Column 6) to equal the proposed impact fee reimbursement (Column 8). The impact fee district number is also shown for each project. The subtotals on page 2 are provided to identify amounts for each impact fee district. District 1 represents the area of Monroe County from Key West up to Marathon; District 2 includes Marathon up to Lower Matecumbe Key; and District 3 is from Lower Matecumbe Key to Key Largo.

SUMMARY OF ELIGIBLE IMPACT FEE COSTS

(1) PROJECT	(2) DATE	(3) TYPE OF COST	(4) COLLECTOR ROAD* TOTAL	(5) IMPACT FEE PERCENTAGE	(6) ELIGIBLE IMPACT FEE AMOUNT	(7) PREVIOUSLY EXPENDED IMPACT FEES	(8) ELIGIBLE*** IMPACT FEE REIMBURSEMENT	(9) IMPACT FEE DISTRICT
Big Pine Key Roads VIII	2000-2001	Construction	\$110,873.50	24.2%	\$26,831.39	\$0.00	\$26,831.39	1
		Monroe County Engineering	\$7,489.19	24.2%	\$1,812.38	\$0.00	\$1,812.38	
		Bike Path/Roadway Construction	\$419,760.75	100.0%	\$419,760.75	\$0.00	\$419,760.75	
		Monroe County Engineering	\$35,332.46	100.0%	\$35,332.46	\$0.00	\$35,332.46	
		Collector Total	\$573,455.90				\$483,736.99	
Cudjoe Key Roads IV	2000-2001	Bike Path/Roadway Construction	\$329,467.65	100.0%	\$329,467.65	\$0.00	\$329,467.65	1
		Monroe County Engineering	\$24,525.63	100.0%	\$24,525.63	\$0.00	\$24,525.63	
		Collector Total	\$353,993.28				\$353,993.28	
Key Largo Roads XV	1999-2001	Construction	\$223,914.72	24.2%	\$54,187.36	\$0.00	\$54,187.36	3
		Monroe County Engineering	\$27,305.00	24.2%	\$6,607.81	\$0.00	\$6,607.81	
		Collector Total	\$251,219.72				\$60,795.17	
Little Torch Key Roads III	2000-2001	Collector Roads Construction	\$84,777.20	24.2%	\$20,516.08	\$0.00	\$20,516.08	1
		Monroe County Engineering	\$7,604.74	24.2%	\$1,840.35	\$0.00	\$1,840.35	
		Bike Path/Roadway Construction	\$561,196.90	100.0%	\$561,196.90	\$0.00	\$561,196.90	
		Monroe County Engineering	\$46,339.67	100.0%	\$46,339.67	\$0.00	\$46,339.67	
		Collector Total	\$699,918.51				\$629,893.00	
Ramrod Key Roads II	2001	Construction	\$214,418.30	24.2%	\$51,889.23	\$0.00	\$51,889.23	1
		Monroe County Engineering	\$18,681.92	24.2%	\$4,521.03	\$0.00	\$4,521.03	
		Bike Path/Roadway Construction	\$71,895.15	100.0%	\$71,895.15	\$0.00	\$71,895.15	
		Monroe County Engineering	\$5,366.96	100.0%	\$5,366.96	\$0.00	\$5,366.96	
		Collector Total	\$310,362.33				\$133,672.37	
Rockland Key Roads I	2001-2002	Construction	\$265,433.80	24.2%	\$64,234.98	\$0.00	\$64,234.98	1
		Monroe County Engineering	\$21,401.41	24.2%	\$5,179.14	\$0.00	\$5,179.14	
		Collector Total	\$286,835.21				\$69,414.12	

SUMMARY OF ELIGIBLE IMPACT FEE COSTS

(1) PROJECT	(2) DATE	(3) TYPE OF COST	(4) COLLECTOR ROAD* TOTAL	(5) IMPACT FEE PERCENTAGE	(6) ELIGIBLE IMPACT FEE AMOUNT	(7) PREVIOUSLY EXPENDED IMPACT FEES	(8) ELIGIBLE*** IMPACT FEE REIMBURSEMENT	(9) IMPACT FEE DISTRICT
Shrimp Road	2001-2002	Construction	\$57,417.90 ***	24.2%	\$13,895.14	\$0.00	\$13,895.14	1
		Monroe County Engineering	\$4,986.79	24.2%	\$1,206.80	\$0.00	\$1,206.80	
		Collector Total	\$62,404.69				\$15,101.94	
Sugarloaf Boulevard Paved Pathway	1999-2001	Construction	\$234,119.40	100.0%	\$234,119.40	\$0.00	\$234,119.40	1
		Monroe County Engineering	\$31,488.66	100.0%	\$31,488.66	\$0.00	\$31,488.66	
		Collector Total	\$265,608.06				\$265,608.06	
Big Pine Roads R01505 In-House	2001-2002	Construction	\$15,960.20 ***	24.2%	\$3,862.37	\$0.00	\$3,862.37	1
		Monroe County Engineering	\$0.00	24.2%	\$0.00	\$0.00	\$0.00	
		Collector Total	\$15,960.20				\$3,862.37	
Big Pine Roads R02501 In-House	2001-2002	Construction	\$10,819.51 ***	24.2%	\$2,618.32	\$0.00	\$2,618.32	1
		Monroe County Engineering	\$0.00	24.2%	\$0.00	\$0.00	\$0.00	
		Bike Path/Roadway Construction	\$47,833.63 ***	100.0%	\$47,833.63	\$0.00	\$47,833.63	
		Monroe County Engineering	\$0.00	100.0%	\$0.00	\$0.00	\$0.00	
		Collector Total	\$58,653.14				\$50,451.95	
Upper Sugarloaf Roads R02700 In-House	2001-2002	Construction	\$107,060.52 ***	24.2%	\$25,908.65	\$0.00	\$25,908.65	1
		Monroe County Engineering	\$0.00	24.2%	\$0.00	\$0.00	\$0.00	
		Collector Total	\$107,060.52				\$25,908.65	

	ELIGIBLE IMPACT FEE AMOUNT	AVAILABLE IMPACT FEE RE- IMBURSEMENT	PROPOSED IMPACT FEE REIMBURSEMENT
SUBTOTAL FOR DISTRICT 1	\$2,031,642.73	\$1,107,756.14	\$1,107,756.14
SUBTOTAL FOR DISTRICT 2	\$0.00	\$2,086,596.82	\$0.00
SUBTOTAL FOR DISTRICT 3	\$60,795.17	\$2,925,220.58	\$60,795.17
TOTAL	\$2,092,437.90	\$6,119,573.54	\$1,168,551.31

* See Appendix C for details

** Fund #102 to be reimbursed

*** See Appendix B for adjustments

**APPENDIX B – PROJECT TOTAL AND
BALANCE COMPARISON**

Appendix B, Project Total and Balance Comparison, shows project totals for each project which were obtained from the Public Works Department and project expenditure balances obtained from the Finance Department. The difference was calculated by subtracting the Project Total from the Project Expenditures Balance with negative amounts in parenthesis. The account numbers charged for each project are listed in the final column.

PROJECT CONSTRUCTION TOTAL AND BALANCE COMPARISON

PROJECT	DATE	PROJECT CONSTRUCTION TOTAL	PROJECT CONSTRUCTION EXPENDITURES FROM FINANCE	DIFFERENCES	ACCOUNT NUMBERS
Big Pine Key Roads VIII	2000-2001	\$578,973.75	\$579,237.75	(\$264.00)	102 22506 560630 R98327 560630
Cudjoe Key Roads IV	2000-2001	\$416,057.00 ⁽¹⁾	\$416,057.00	\$0.00	102 22506 560630 R98328 530340
Key Largo Roads XV	1999-2001	\$223,914.72	\$223,914.72	\$0.00	102 22506 560630 R99300 530340
Little Torch Key Roads III	2000-2001	\$736,944.79 ⁽¹⁾	\$736,944.79	\$0.00	102 22506 560630 R98329 530340
Ramrod Key Roads II	2001	\$493,325.05	\$493,325.05	\$0.00	102 22506 560630 R97305 530340
Rockland Key Roads I	2001-2002	\$385,584.22	\$385,584.20	\$0.01	102 22506 560630 R99301 530340
Shrimp Road	2001-2002	\$57,417.90 ⁽²⁾	\$57,417.90	\$0.00	102 22506 560630 R02301 560630
Sugarloaf Boulevard Paved Pathway	1999-2001	\$234,119.40	\$234,119.40	\$0.00	102 22506 560630 R98330 530340
Big Pine Roads R01505 In-House	2000-2001	\$23,277.92	\$21,265.59	\$2,012.33 ⁽³⁾	102 22507 560630 R01505
Big Pine Roads R02501 In-House	2001-2002	\$72,100.28	\$69,264.71	\$2,835.57 ⁽³⁾	102 22507 560630 R02501
Upper Sugarloaf Roads R02700 In-House	2001-2002	\$152,494.49	\$151,422.01	\$1,072.48 ⁽³⁾	102 22503 560630 R02700
TOTAL		\$3,374,209.52	\$3,368,553.12	\$5,656.40	

⁽¹⁾ Includes Retainage from Application #5

⁽²⁾ Includes Drain Improvements - Sickie Well \$10,000; Water Testing - Synagro \$170

⁽³⁾ Difference occurs primarily from Emulsion costs which are initially charged to 22503-530530. They are subsequently allocated to project costs and therefore are not included on the Finance Expenditure Report.

APPENDIX C – INDIVIDUAL PROJECT COST

Appendix C, Project Cost Sheet, is comprised of individual project costs. The Project Number is the Account Number to which costs are charged. The year indicated is the year in which the majority of the work took place. A brief description of the project is also provided. All roads included in each project are listed by subdivision and key.

The Project Cost Sheet is divided into the following sections:

1. **Engineering Cost by Monroe County**
Includes costs for Surveying, Design, and Inspection. Costs for the contracted projects were determined from the actual timesheets of the Engineering Department employees for each project.
2. **Construction Costs**
Shows actual construction costs. Breakdown of work, Quantities and Unit Costs were determined from the bid sheet, pay requests, and approved change orders for contracted projects. The in-house projects reflect actual items and quantities used plus labor and travel costs.
3. **Cost Per Collector and Non-Collector Road**
Indicates the cost per type of road. This section breaks the project into eligible collector roads and non-eligible roads. Eligible roads are defined as "collector roads that were improved either by widening the road or by upgrading the surface of the road". The cost to do the work for each road was calculated using actual quantities and unit costs.

PROJECT COST

PROJECT NAME: **BIG PINE KEY ROADS VIII** PROJECT NUMBER: 102 22506 560630 R98327
560630 YEAR: 2000 - 2001

DESCRIPTION: Roadway improvements which include base construction, base widening, regrading roadway shoulders, asphalt leveling, asphalt resurfacing, speed humps, traffic paint striping, traffic sign installation and relocation, removing excess asphalt, tree removal and other related roadway construction as shown on the drawings and included in the technical specifications

ROAD NAME		SUBDIVISION	KEY
Long Beach Road	*	Long Beach Estates Subdivision	Big Pine Key
Gordon Drive	*	Whispering Pines Subdivision	Big Pine Key
Anthony Street		Whispering Pines Subdivision	Big Pine Key
Hibiscus Drive	*	Whispering Pines Plat 3 Subdivision	Big Pine Key
Ixora Drive	*	Whispering Pines Plat 3 Subdivision	Big Pine Key
Palm Drive	*	Whispering Pines Plat 3 Subdivision	Big Pine Key
Pine Lane		Whispering Pines Plat 3 Subdivision	Big Pine Key
Almond Lane		Whispering Pines Plat 4 Subdivision	Big Pine Key
Croton Lane		Whispering Pines Plat 4 Subdivision	Big Pine Key

* Eligible Collector Road

A. ENGINEERING COSTS BY MONROE COUNTY:

	<u>Actual Cost**</u>
TOTAL	<u>\$45,945.98</u>

** See Appendix D for Details

PROJECT COST

B. CONSTRUCTION COSTS:

	<u>Quantity</u>		<u>Unit Cost</u>	<u>Actual Cost***</u>
1. General Provisions	1	ls	\$16,000.00	\$16,000.00
2. Maintenance of Traffic	1	ls	\$6,000.00	\$6,000.00
3. Sitework	1	ls	\$65,000.00	\$65,000.00
4. Invasive Exotic Tree Removal	1	ls	\$17,000.00	\$17,000.00
5. Optional Base Course (Asphalt or Limerock)	12420	sy	\$6.00	\$74,520.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)	50486	sy	\$3.00	\$151,458.00
7. Asphalt Concrete Leveling Course (1"CompMin)	50486	sy	\$3.25	\$164,079.50
8. Speed Hump Construction	2	ea	\$400.00	\$800.00
9. Temporary Paint Striping	1	ls	\$10,000.00	\$10,000.00
10. 6" Yellow Solid Pavement Marking (Thermo)	14594	lf	\$0.50	\$7,297.00
11. 6" Yellow Skip Pavement Marking (Thermo)	2030	lf	\$0.75	\$1,522.50
12. 12" White Stripe (Thermo)	480	lf	\$2.75	\$1,320.00
13. 6" White Stripe (Thermo)	24800	lf	\$0.50	\$12,400.00
14. 24" White Stop Bar (Thermo)	150	lf	\$2.75	\$412.50
15. White "Stop" Message (Thermo)	11	ea	\$85.00	\$935.00
16. Amber Reflective Pavement Marking	541	ea	\$4.25	\$2,299.25
17. White Bike Lane Diamond	128	ea	\$55.00	\$7,040.00
18. Traffic Signs w/Post	39	ea	\$220.00	\$8,580.00
19. Additional Posts	2	ea	\$100.00	\$200.00
20. Delineators	24	ea	\$65.00	\$1,560.00
21. Guardrail	50	lf	\$50.00	\$2,500.00
22. Turbidity Screen	17000	lf	\$1.65	\$28,050.00
TOTAL				<u>\$578,973.75</u>

*** See Appendix E for Details

PROJECT COST

C. SUMMARY OF ELIGIBLE COLLECTOR COSTS

	ELIGIBLE COLLECTOR ROADS 16.30% *			BIKE PATHS 76.90% **			TOTAL ELIGIBLE COLLECTORS
	Quantity	Unit Price	Total	Quantity	Unit Price	Total	
ENGINEERING COSTS:		\$45,945.98 *	\$7,489.19		\$45,945.98 **	\$35,332.46	\$42,821.65
ENGINEERING COST			\$7,489.19			\$35,332.46	\$42,821.65
CONSTRUCTION COSTS:							
1. General Provisions		\$16,000 *	\$2,608.00		\$16,000 **	\$12,304.00	\$14,912.00
2. Maintenance of Traffic		\$6,000 *	\$978.00		\$16,000 **	\$4,614.00	\$5,592.00
3. Sitework		\$65,000 *	\$10,595.00		\$16,000 **	\$49,985.00	\$60,580.00
4. Invasive Exotic Tree Removal		\$17,000 *	\$2,771.00		\$16,000 **	\$13,073.00	\$15,844.00
5. Limerock)	1010	\$6.00	\$6,060.00	9953	\$6.00	\$59,718.00	\$65,778.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)	8203	\$3.00	\$24,609.00	38838	\$3.00	\$116,514.00	\$141,123.00
7. Asphalt Concrete Leveling Course (1"CompMin)	8203	\$3.25	\$26,659.75	38838	\$3.25	\$126,223.50	\$152,883.25
8. Speed Hump Construction			\$0.00			\$0.00	\$0.00
9. Temporary Paint Striping		\$10,000.00 *	\$1,630.00		\$10,000 **	\$7,690.00	\$9,320.00
10. 6" Yellow Solid Pavement Marking (Thermo)	1068	\$0.50	\$534.00	10104	\$0.50	\$5,052.00	\$5,586.00
11. 6" Yellow Skip Pavement Marking (Thermo)	900	\$0.75	\$675.00	1090	\$0.75	\$817.50	\$1,492.50
12. 12" White Stripe (Thermo)			\$0.00	360	\$2.75	\$990.00	\$990.00
13. 6" White Stripe (Thermo)			\$0.00	19689	\$0.50	\$9,844.50	\$9,844.50
14. 24" White Stop Bar (Thermo)	65	\$2.75	\$178.75	42	\$2.75	\$115.50	\$294.25
15. White "Stop" Message (Thermo)	5	\$85.00	\$425.00	1	\$85.00	\$85.00	\$510.00
16. Amber Reflective Pavement Marking			\$0.00	447	\$4.25	\$1,899.75	\$1,899.75
17. White Bike Lane Diamond			\$0.00	125	\$55.00	\$6,875.00	\$6,875.00
18. Traffic Signs w/Post	9	\$220.00	\$1,980.00	18	\$220.00	\$3,960.00	\$5,940.00
19. Additional Posts	1	\$100.00	\$100.00			\$0.00	\$100.00
20. Delineators	8	\$65.00	\$520.00			\$0.00	\$520.00
21. Guardrail	50	\$50.00	\$2,500.00			\$0.00	\$2,500.00
22. Turbidity Screen	17000	\$1.65	\$28,050.00			\$0.00	\$28,050.00
CONSTRUCTION COSTS			\$110,873.50			\$419,760.75	\$530,634.25

* Percentage equals actual total square yardage of collector roads asphaltic surface course divided by total project asphaltic surface course square yardage (8203/50486=16.3%)

** Percentage equals actual total square yardage of bike path asphaltic surface course divided by total project asphaltic surface course square yardage (38838/50486=76.9%)

PROJECT COST

D. COSTS

ENGINEERING COSTS:

	ELIGIBLE COLLECTOR	OTHERS	PROJECT TOTAL
TOTAL ENGINEERING COSTS	\$42,821.65	\$3,124.33	\$45,945.98
CONSTRUCTION COSTS:			
1. General Provisions	\$14,912.00	\$1,088.00	\$16,000.00
2. Maintenance of Traffic	\$5,592.00	\$408.00	\$6,000.00
3. Sitework	\$60,580.00	\$4,420.00	\$65,000.00
4. Invasive Exotic Tree Removal	\$15,844.00	\$1,156.00	\$17,000.00
5. Optional Base Course (Asphalt or Limerock)	\$65,778.00	\$8,742.00	\$74,520.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)	\$141,123.00	\$10,335.00	\$151,458.00
7. Asphalt Concrete Leveling Course (1"CompMin)	\$152,883.25	\$11,196.25	\$164,079.50
8. Speed Hump Construction	\$0.00	\$800.00	\$800.00
9. Temporary Paint Striping	\$9,320.00	\$680.00	\$10,000.00
10. 6" Yellow Solid Pavement Marking (Thermo)	\$5,586.00	\$1,711.00	\$7,297.00
11. 6" Yellow Skip Pavement Marking (Thermo)	\$1,492.50	\$30.00	\$1,522.50
12. 12" White Stripe (Thermo)	\$990.00	\$330.00	\$1,320.00
13. 6" White Stripe (Thermo)	\$9,844.50	\$2,555.50	\$12,400.00
14. 24" White Stop Bar (Thermo)	\$294.25	\$118.25	\$412.50
15. White "Stop" Message (Thermo)	\$510.00	\$425.00	\$935.00
16. Amber Reflective Pavement Marking	\$1,899.75	\$399.50	\$2,299.25
17. White Bike Lane Diamond	\$6,875.00	\$165.00	\$7,040.00
18. Traffic Signs w/Post	\$5,940.00	\$2,640.00	\$8,580.00
19. Additional Posts	\$100.00	\$100.00	\$200.00
20. Delineators	\$520.00	\$1,040.00	\$1,560.00
21. Guardrail	\$2,500.00	\$0.00	\$2,500.00
22. Turbidity Screen	\$28,050.00	\$0.00	\$28,050.00
TOTAL CONSTRUCTION COSTS	\$530,634.25	\$48,339.50	\$578,973.75
TOTAL COST FOR ELIGIBLE COLLECTOR ROADS: (ENGINEERING + CONSTRUCTION)	\$573,455.90		

PROJECT COST

PROJECT NAME: **CUDJOE KEY ROADS IV**

PROJECT NUMBER: 102 22506 560630 R98328 530340 YEAR: 2000-2001

DESCRIPTION: Addition of bike lanes and roadway improvements which include base construction, base widening, grinding down flowable fill, regrading roadway shoulders, asphalt leveling, asphalt resurfacing, concrete slab, pavement markings, traffic sign installation and relocation, exotic invasive removal, tree removal and other related roadway construction as shown on the drawings and included in the technical specifications

ROAD NAME	SUBDIVISION	KEY
Blimp Road *	Cudjoe Ocean Shores	Cudjoe Key
Sailfish Lane	Cudjoe Ocean Shores	Cudjoe Key
Tarpon Lane	Cudjoe Ocean Shores	Cudjoe Key

* Eligible Collector Road

A. ENGINEERING COSTS BY MONROE COUNTY:

TOTAL

Actual Cost**

\$25,898.24

** See Appendix D for Details

PROJECT COST

B. CONSTRUCTION COSTS:

	Quantity		Unit Cost	Actual Cost***
1. General Provisions	1	ls	\$20,000.00	\$20,000.00
2. Maintenance of Traffic	1	ls	\$10,000.00	\$10,000.00
3. Sitework	1	ls	\$15,000.00	\$15,000.00
4. Invasive Exotic Tree Removal	1	ls	\$5,000.00	\$5,000.00
5. Optional Base Course (Asphalt or Limerock)	7251	sy	\$8.00	\$58,008.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)	31750	sy	\$3.00	\$95,250.00
7. Asphalt Concrete Surface Course (1"CompMin)	31750	sy	\$4.00	\$127,000.00
8. 6" Concrete Slab	100	sy	\$30.00	\$3,000.00
9. Milling (Grinding) 1-1/2" deep into flowable fill pat	24	sy	\$10.00	\$240.00
10. Additional Fill	90	sy	\$12.00	\$1,080.00
11. Turbidity Barrier	20000	lf	\$2.00	\$40,000.00
12. 6" Yellow Solid Pavement Marking (Thermo)	400	lf	\$0.70	\$280.00
13. 6" Yellow Skip Pavement Marking (Thermo)	2700	lf	\$0.75	\$2,025.00
14. Bike Crossing Striping-White 12"x4'	755	lf	\$2.20	\$1,661.00
15. 6" White Stripe (Thermo)	20099	lf	\$0.70	\$14,069.30
16. 24" White Stop Bar (Thermo)	38	lf	\$3.00	\$114.00
17. White "Stop" Message (Thermo)	2	ea	\$100.00	\$200.00
18. Amber Reflective Pavement Marking	262	ea	\$4.00	\$1,048.00
19. Blue Reflective Pavement Markers	2	ea	\$4.00	\$8.00
20. White Bike Lane Diamond	109	ea	\$50.00	\$5,450.00
21. Temporary Paint Striping	1	ls	\$5,000.00	\$5,000.00
22. Traffic Signs w/Post	8	ea	\$200.00	\$1,600.00
23. Traffic Sign Relocation	1	ea	\$100.00	\$100.00
24. Traffic sign Removal	1	ea	\$50.00	\$50.00
25. Delineators	48	ea	\$130.00	\$6,240.00
26. Delineators Relocation	0	ea	\$100.00	\$0.00
TOTAL				\$412,423.30

*** See Appendix E for Details

PROJECT COST

SUMMARY OF ELIGIBLE COLLECTOR C. COSTS:

ENGINEERING COSTS:

ENGINEERING COST

ELIGIBLE COLLECTOR ROADS 94.7% *

Quantity	Unit Price
	\$25,898.24 *

TOTAL ELIGIBLE COLLECTOR

\$24,525.63
<u>\$24,525.63</u>

CONSTRUCTION COSTS:

1. General Provisions		\$20,000.00 *	\$18,940.00
2. Maintenance of Traffic		\$10,000.00 *	\$9,470.00
3. Sitework		\$15,000.00 *	\$14,205.00
4. Invasive Exotic Tree Removal			\$0.00
5. Optional Base Course (Asphalt or Limerock)	7251	\$8.00	\$58,008.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)		\$95,250.00 *	\$90,201.75
7. Asphalt Concrete Surface Course (1"CompMin)		\$127,000.00 *	\$120,269.00
8. 6" Concrete Slab			\$0.00
9. Milling (Grinding) 1-1/2" deep into flowable fill pat			\$0.00
10. Additional Fill			\$0.00
11. Turbidity Barrier			\$0.00
12. 6" Yellow Solid Pavement Marking (Thermo)	400	\$0.70	\$280.00
13. 6" Yellow Skip Pavement Marking (Thermo)	2530	\$0.75	\$1,897.50
14. Bike Crossing Striping-White 12"x4'	152	\$2.20	\$334.40
15. 6" White Stripe (Thermo)	1960	\$0.70	\$1,372.00
16. 24" White Stop Bar (Thermo)	20	\$3.00	\$60.00
17. White "Stop" Message (Thermo)	1	\$100.00	\$100.00
18. Amber Reflective Pavement Marking	259	\$4.00	\$1,036.00
19. Blue Reflective Pavement Markers	1	\$4.00	\$4.00
20. White Bike Lane Diamond	109	\$50.00	\$5,450.00
21. Temporary Paint Striping			\$0.00
22. Traffic Signs w/Post	8	\$200.00	\$1,600.00
23. Traffic Sign Relocation			\$0.00
24. Traffic sign Removal			\$0.00
25. Delineators	48	\$130.00	\$6,240.00
26. Delineators Relocation			\$0.00

CONSTRUCTION COST

<u>\$329,467.65</u>

* Percentage equals actual total square yardage of eligible collector asphaltic surface course divided by total project asphaltic surface course square yardage (30077/31750=94.7%)

PROJECT COST

D. COSTS:

ELIGIBLE COLLECTOR

OTHERS

TOTAL

ENGINEERING COSTS:

TOTAL ENGINEERING COST

\$24,525.63

\$1,372.61

\$25,898.24

CONSTRUCTION COSTS:

1. General Provisions	\$18,940.00	\$1,060.00	\$20,000.00
2. Maintenance of Traffic	\$9,470.00	\$530.00	\$10,000.00
3. Sitework	\$14,205.00	\$795.00	\$15,000.00
4. Invasive Exotic Tree Removal	\$0.00	\$5,000.00	\$5,000.00
5. Optional Base Course (Asphalt or Limerock)	\$58,008.00	\$0.00	\$58,008.00
6. Asphalt Concrete Leveling Course (1/2"CompMin)	\$90,201.75	\$5,048.25	\$95,250.00
7. Asphalt Concrete Surface Course (1"CompMin)	\$120,269.00	\$6,731.00	\$127,000.00
8. 6" Concrete Slab	\$0.00	\$3,000.00	\$3,000.00
9. Milling (Grinding) 1-1/2" deep into flowable fill pat	\$0.00	\$240.00	\$240.00
10. Additional Fill	\$0.00	\$1,080.00	\$1,080.00
11. Turbidity Barrier	\$0.00	\$40,000.00	\$40,000.00
12. 6" Yellow Solid Pavement Marking (Thermo)	\$280.00	\$0.00	\$280.00
13. 6" Yellow Skip Pavement Marking (Thermo)	\$1,897.50	\$127.50	\$2,025.00
14. Bike Crossing Striping-White 12"x4'	\$334.40	\$1,326.60	\$1,661.00
15. 6" White Stripe (Thermo)	\$1,372.00	\$12,697.30	\$14,069.30
16. 24" White Stop Bar (Thermo)	\$60.00	\$54.00	\$114.00
17. White "Stop" Message (Thermo)	\$100.00	\$100.00	\$200.00
18. Amber Reflective Pavement Marking	\$1,036.00	\$12.00	\$1,048.00
19. Blue Reflective Pavement Markers	\$4.00	\$4.00	\$8.00
20. White Bike Lane Diamond	\$5,450.00	\$0.00	\$5,450.00
21. Temporary Paint Striping	\$0.00	\$5,000.00	\$5,000.00
22. Traffic Signs w/Post	\$1,600.00	\$0.00	\$1,600.00
23. Traffic Sign Relocation	\$0.00	\$100.00	\$100.00
24. Traffic sign Removal	\$0.00	\$50.00	\$50.00
25. Delineators	\$6,240.00	\$0.00	\$6,240.00
26. Delineators Relocation	\$0.00	\$0.00	\$0.00

TOTAL CONSTRUCTION COST

\$329,467.65

\$82,955.65

\$412,423.30

TOTAL COST FOR ELIGIBLE COLLECTOR ROADS:

\$353,993.28

(ENGINEERING + CONSTRUCTION COSTS)

PROJECT COST

PROJECT NAME: KEY LARGO ROADS XV PROJECT NUMBER: 102 22506 560630 R99300 530340 YEAR: 1999-2001

DESCRIPTION: Roadway improvements which include base construction, regrading roadway shoulders, asphalt leveling, asphalt resurfacing, concrete curb, underground wiring and trenching, light pole re-location, light pole foundations, pavement markings, traffic sign installation, and other related roadway construction as shown on the drawings and included in the technical specifications

ROAD NAME	SUBDIVISION	KEY
C - 905 *		Key Largo

* Eligible Collector Road

A. ENGINEERING COSTS BY MONROE COUNTY:

	<u>Actual Cost**</u>
TOTAL	<u>\$27,305.00</u>

** See Appendix D for Details

PROJECT COST

B. CONSTRUCTION COSTS:

	Quantity		Unit Cost	Actual Cost***
1. General Provisions	1	ls	\$23,000.00	\$23,000.00
1.A General Provisions	1	ls	\$1,000.00	\$1,000.00
2. Maintenance of Traffic	1	ls	\$7,000.00	\$7,000.00
2.A Maintenance of Traffic	1	ls	\$2,500.00	\$2,500.00
3. Sitework	1	ls	\$6,000.00	\$6,000.00
3.A Sitework	1	ls	\$3,000.00	\$3,000.00
4. Optional Base Course (Asphalt or Limerock)	20	sy	\$25.00	\$500.00
add	307	sy	\$12.00	\$3,684.00
5. Asphalt Concrete Leveling Course (1/2"CompMin)	28860	sy	\$1.25	\$36,075.00
6. Asphalt Concrete Leveling Course (1"CompMin)	28860	sy	\$2.80	\$80,808.00
7. 6" Yellow Solid Pavement Marking (Thermo)	10862	lf	\$0.45	\$4,887.90
8. 6" Yellow Skip Pavement Marking (Thermo)	1330	lf	\$0.48	\$638.40
9. 6" White Skip Stripe (Thermo)	183	lf	\$0.48	\$87.84
10. 6" White Stripe (Thermo)	19223	lf	\$0.45	\$8,650.35
11. 24" White Stop Bar (Thermo)	90	lf	\$3.00	\$270.00
12. White "Stop" Message (Thermo)	5	ea	\$100.00	\$500.00
13. Amber Reflective Pavement Marking	350	ea	\$3.80	\$1,330.00
14. 18" Gore Strip (Thermo)	652	lf	\$1.80	\$1,173.60
15. Temporary Paint Striping	1	ls	\$3,200.00	\$3,200.00
16. Pavement Arrows	21	ea	\$38.00	\$798.00
17. Traffic Signs w/Post	3	ea	\$260.00	\$780.00
18. Traffic Sign Relocation	2	ea	\$90.00	\$180.00
19. Traffic sign w/o Post	3	ea	\$100.00	\$300.00
20. Remove Existing Light post foundations	10	ea	\$178.77	\$1,787.70
21. Underground Wiring including Trenching	2150	lf	\$8.19	\$17,608.50
22. Relocate Existing Street Lights	10	ea	\$767.14	\$7,671.40
23. Install New Lightpole foundations	10	ea	\$724.47	\$7,244.70
24. 6" Curb and Gutter	25	lf	\$60.00	\$1,500.00
25. Transformer Base	1	ea	\$405.98	\$405.98
26. Relocate Existing Stop Sign	1	ea	\$90.00	\$90.00
27. Asphaltic Surface Course (1-1/2" CompMin)	307	sy	\$4.05	\$1,243.35
TOTAL				<u>\$223,914.72</u>

*** See Appendix E for Details

PROJECT COST

C. COSTS PER ROAD:

ENGINEERING COSTS:

TOTAL ENGINEERING COST

ELIGIBLE COLLECTOR	OTHERS	TOTAL
<u>\$27,305.00</u>	<u>\$0.00</u>	<u>\$27,305.00</u>

CONSTRUCTION COSTS:

1. General Provisions	\$24,000.00	\$0.00	\$24,000.00
2. Maintenance of Traffic	\$9,500.00	\$0.00	\$9,500.00
3. Sitework	\$9,000.00	\$0.00	\$9,000.00
4. Optional Base Course (Asphalt or Limerock)	\$4,184.00	\$0.00	\$4,184.00
5. Asphalt Concrete Leveling Course (1/2"CompMin)	\$36,075.00	\$0.00	\$36,075.00
6. Asphalt Concrete Leveling Course (1"CompMin)	\$80,808.00	\$0.00	\$80,808.00
7. 6" Yellow Solid Pavement Marking (Thermo)	\$4,887.90	\$0.00	\$4,887.90
8. 6" Yellow Skip Pavement Marking (Thermo)	\$638.40	\$0.00	\$638.40
9. 6" White Skip Stripe (Thermo)	\$87.84	\$0.00	\$87.84
10. 6" White Stripe (Thermo)	\$8,650.35	\$0.00	\$8,650.35
11. 24" White Stop Bar (Thermo)	\$270.00	\$0.00	\$270.00
12. White "Stop" Message (Thermo)	\$500.00	\$0.00	\$500.00
13. Amber Reflective Pavement Marking	\$1,330.00	\$0.00	\$1,330.00
14. 18" Gore Strip (Thermo)	\$1,173.60	\$0.00	\$1,173.60
15. Temporary Paint Striping	\$3,200.00	\$0.00	\$3,200.00
16. Pavement Arrows	\$798.00	\$0.00	\$798.00
17. Traffic Signs w/Post	\$780.00	\$0.00	\$780.00
18. Traffic Sign Relocation	\$180.00	\$0.00	\$180.00
19. Traffic sign w/o Post	\$300.00	\$0.00	\$300.00
20. Remove Existing Light post foundations	\$1,787.70	\$0.00	\$1,787.70
21. Underground Wiring including Trenching	\$17,608.50	\$0.00	\$17,608.50
22. Relocate Existing Street Lights	\$7,671.40	\$0.00	\$7,671.40
23. Install New Lightpole foundations	\$7,244.70	\$0.00	\$7,244.70
24. 6" Curb and Gutter	\$1,500.00	\$0.00	\$1,500.00
25. Transformer Base	\$405.98	\$0.00	\$405.98
26. Relocate Existing Stop Sign	\$90.00	\$0.00	\$90.00
27. Asphaltic Surface Course (1-1/2" CompMin)	\$1,243.35	\$0.00	\$1,243.35
TOTAL CONSTRUCTION COST	<u>\$223,914.72</u>	<u>\$0.00</u>	<u>\$223,914.72</u>

TOTAL COST FOR COLLECTOR ROADS:
(ENGINEERING + CONSTRUCTION COSTS)

\$251,219.72